

SEQUENCE LISTING

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<110> Bayer HealthCare AG
 Golz, Stefan
 Markova, Svetlana
 Burakova, Ludmila
 Frank, Ludmila
 Vysotski, Eugene

<120> Isolated Photoprotein mtClytin, and the Use Thereof

<130> LeA 36 839

<150> PCT/EP2004/009843

<151> 2004-09-03

<150> DE10342670.1

<151> 2003-09-16

<160> 9

<170> PatentIn version 3.3

<210> 1

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<212> DNA

<213> Clytia gregaria

<400> 1

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Pro Lys Trp Ile Asn Arg His Lys Phe Met Phe Asn Phe Leu Asp Ile
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Asn Gly Lys Gly Lys Ile Thr Leu Asp Glu Ile Val Ser Lys Ala Ser
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Asp Asp Ile Cys Ala Lys Leu Asp Ala Thr Pro Glu Gln Thr Lys Arg
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His Gln Asp Ala Val Glu Ala Phe Phe Lys Lys Met Gly Met Asp Tyr
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Gly Lys Glu Val Ala Phe Pro Glu Phe Ile Lys Gly Trp Glu Glu Leu
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Arg Glu Trp Gly Asp Ala Val Phe Asp Ile Phe Asp Lys Asp Ala Ser
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Gly Ser Ile Ser Leu Asp Glu Trp Lys Ala Tyr Gly Arg Ile Ser Gly
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 35 40 45
 Ala Ser Asp Asp Ile Cys Ala Lys Leu Gly Ala Thr Pro Ala Gln Thr
 50 55 60

Gln Arg His Gln Glu Ala Val Glu Ala Phe Phe Lys Lys Ile Gly Leu
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 Asp Tyr Gly Lys Glu Val Glu Phe Pro Ala Phe Val Asn Gly Trp Lys
 85 90 95
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 100 105 110
 Leu Ile Arg Asn Trp Gly Glu Ala Val Phe Asp Ile Phe Asp Lys Asp
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 130 135 140
 Ser Gly Ile Cys Pro Ser Asp Glu Asp Ala Glu Lys Thr Phe Lys His
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 Cys Asp Leu Asp Asn Ser Gly Lys Leu Asp Val Asp Glu Met Thr Arg
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 caacgctgat ggtctttacg gcaattttgt tccttaaaca tcgaaacaaa agcccaaaag 660
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20 25 30

Asp Ile Asn Gly Asp Gly Lys Ile Thr Leu Asp Glu Ile Val Ser Lys
35 40 45

Ala Ser Asp Asp Ile Cys Ala Lys Leu Gly Ala Thr Pro Glu Gln Thr
50 55 60

Lys Arg His Gln Asp Ala Val Glu Ala Phe Phe Lys Lys Ile Gly Met
65 70 75 80

Asp Tyr Gly Lys Glu Val Glu Phe Pro Ala Phe Val Asp Gly Trp Lys
85 90 95

Glu Leu Ala Asn Tyr Asp Leu Lys Leu Trp Ser Gln Asn Lys Lys Ser
100 105 110

Leu Ile Arg Asp Trp Gly Glu Ala Val Phe Asp Ile Phe Asp Lys Asp
115 120 125

Gly Ser Gly Ser Ile Ser Leu Asp Glu Trp Lys Ala Tyr Gly Arg Ile
130 135 140

Ser Gly Ile Cys Ser Ser Asp Glu Asp Ala Glu Lys Thr Phe Lys His
145 150 155 160

Cys Asp Leu Asp Asn Ser Gly Lys Leu Asp Val Asp Glu Met Thr Arg
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Tyr Gly Asn Phe Val Pro
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 35 40 45
 Ala Ser Asp Asp Ile Cys Ala Lys Leu Gly Ala Thr Pro Ala Gln Thr
 50 55 60
 Gln Arg His Gln Glu Ala Val Glu Ala Phe Phe Lys Lys Ile Gly Leu
 65 70 75 80
 Asp Tyr Gly Lys Glu Val Glu Phe Pro Ala Phe Val Asn Gly Trp Lys
 85 90 95
 Glu Leu Ala Lys His Asp Leu Lys Leu Trp Ser Gln Asn Lys Lys Ser
 100 105 110
 Leu Ile Arg Asn Trp Gly Glu Ala Val Phe Asp Ile Phe Asp Lys Asp
 115 120 125
 Gly Ser Gly Ser Ile Ser Leu Asp Glu Trp Lys Thr Tyr Gly Gly Ile
 130 135 140
 Ser Gly Ile Cys Pro Ser Asp Glu Asp Ala Glu Lys Thr Phe Lys His
 145 150 155 160
 Cys Asp Leu Asp Asn Ser Gly Lys Leu Asp Val Asp Glu Met Thr Arg
 165 170 175
 Gln His Leu Gly Phe Trp Tyr Thr Leu Asp Pro Asn Ala Asp Gly Leu
 180 185 190
 Tyr Gly Asn Phe Val Pro
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